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Applicant : Sampath et al.

Art Unit : Unknown

Serial No. :

Examiner : Unknown

Filed : January 27, 2004

Title : SCALABLE SPACE-FREQUENCY CODING FOR MIMO SYSTEMS

Commissioner for Patents

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INFORMATION DISCLOSURE STATEMENT

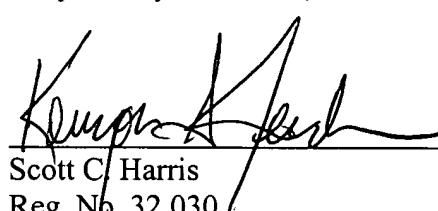
Applicants submit the references listed on the attached form PTO-1449.

This statement is being filed with the application. A copy of the listed U.S. document is not provided in accordance with the waiver posted on the U.S. Patent Office website. Accordingly, only copies of non-patent literature are enclosed.

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Respectfully submitted,

Date: January 28, 2004

  
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. MP0396	Application No.
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sampath et al.	
		Filing Date January 28, 2004	Group Art Unit

<b>U.S. Patent Documents</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,345,599	9/6/1994	Paulraj, et al.			
	AB						

<b>Foreign Patent Documents or Published Foreign Patent Applications</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	AC						
	AD						

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	AE	Foschini, et al., "On Limits of Wireless Communications in a Fading Environment when Using Multiple Antennas", Wireless Personal Communications, Vol. 6, pgs. 311-335, 1998.
	AF	S.M. Alamouti, "A Simple Transit Diversity Technique for Wireless Communications", IEEE Journal on Select Areas in Communications, Vol. 16, No. 8, pgs. 1451-1458, October 1998.
	AG	Wolniansky, et al., "V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel", ISSSE 98. 1998 URSI International Symposium on Signals, Systems, and Electronics, pgs. 295-300, September-October 1998.
	AH	Tarokh, et al., "Combined Array Processing and Space-Time Coding", IEEE Transactions on Information Theory, Vol. 45, No. 4, pgs. 1121-1128, May 1999.
	AI	Tarokh, et al., "Space-Time Block Codes from Orthogonal Designs", IEEE Transactions on Information Theory, Vol. 45, No. 5, pgs. 1456-1467, July 1999.
	AJ	Sandhu, et al., "Space-Time Block Codes versus Space-Time Trellis Codes", IEEE Communications Letters, Vol. XX, No. Y, pgs. 1-11, November 2000.
	AK	Hassibi, et al., "High-Rate Codes that are Linear in Space and Time", IEEE Transactions on Information Theory, Vol. 48, No. 7, pgs. 1-55, July 2002.
	AL	Heath, et al., "Linear Dispersion Codes for MIMO Systems Based on Frame Theory", IEEE Transactions on Signal Processing, Vol. 50, No. 10, pgs. 2429-2441, October 2002.
	AM	Ma, et al., "Full-Rate Full-Diversity Complex-Field Space-Time Codes for Frequency- or Time-Selective Fading Channels", Conference Record of the Thirty-Sixth Asilomar Conference on Signals, Systems and Computers, Vol. 2, pgs. 1714-1718, November 2002.
	AN	Liu, et al., "Linear Constellation Precoding for OFDM With Maximum Multipath Diversity and Coding Gains", IEEE Transactions on Communications, Vol. 51, No. 3, pgs. 416-427, March 2003.
	AO	Xin, et al., "Space-Time Diversity Systems Based on Linear Constellation Precoding", IEEE Transactions on Wireless Communications, Vol. 2, No. 2, pgs. 294-309, March 2003.
	AP	Jung, et al., "Design of Concatenated Space-Time Block Codes Using Signal Space Diversity and the Alamouti Scheme", IEEE Communications Letters, Vol. 7, No. 7, pgs. 329-331, July 2003.
	AQ	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	